

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO. 0317MH-23513C

In re Application of:

DANIEL A. HENDERSON

Examiner: **BARNIE, R.**

Serial No. **09/477,167**

Filed: **4 JANUARY 2000**

Art Unit: **2643**

For: **METHOD AND APPARATUS FOR IMPROVED PAGING RECEIVER
AND SYSTEM**

PRELIMINARY AMENDMENT

Hon. Commissioner of Patents
and Trademarks
Washington, D.C. 20231

Sir:

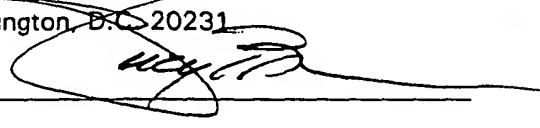
Please cancel pending Claims 19-29 and 40-363.

Please add new Claims 364-417.

Attached find a new Abstract.

CERTIFICATE OF MAILING
37 CFR § 1.8(a)

I hereby certify that this paper or fee is being deposited with the United States Postal Service as First Class Mail service under 37 C.F.R. § 1.8(a) ~~on the date indicated below~~ and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Date of Deposit: 10 FEB 2003 By: 

5 364. For use in a wireless communication system and personal communication device including a wireless paging receiver unit, a display member, a CPU, a memory, and an input accessory, a method for displaying an image comprising the steps of:

10 a) storing image data and caller identifying data of a potential communicant in a database record in memory using an input accessory;

b) using the wireless paging receiver unit to receive a wireless paging signal containing at least one of Caller ID data originating from the public
15 switched telephone network and other caller identifying data that is related to a calling party;

c) using the CPU to determine whether at least one of the Caller ID data and other caller identifying data received matches caller identifying
20 data stored in at least one database record recorded in memory; and

d) using the CPU to display the image data on the display member when it is determined that at least one of the Caller ID data and other caller identifying data received matches stored caller identifying data of a
25 potential communicant.

5 365. A method as in Claim 364 where the memory is Random Access Memory.

366. A method as in Claim 364 where the CPU is a microprocessor.

10 367. A method as in Claim 364 where the image is at least one of the following:

- (a) iconographic data;
- (b) logo data;
- (c) data representative of the calling party;
- 15 (d) photo image;
- (e) video image data; and
- (f) other graphic image data.

- 5 368. For use in a wireless communication system and personal communication device including a wireless paging receiver unit, a sound output device, a CPU, a memory, and a sound input accessory, a method for generating a sound comprising the steps of:
- 10 a) storing sound data and caller identifying data of a potential communicant in a database record in memory using an input accessory;
- b) using the wireless paging receiver unit to receive a wireless paging signal containing at least one of Caller ID data originating from the public
- 15 switched telephone network and other caller identifying data that is related to a calling party;
- c) using the CPU to determine whether at least one of the Caller ID data and other caller identifying data received in the wireless signal
- 20 matches caller identifying data stored in at least one database record recorded in memory; and
- d) using the sound output device to generate a sound using a sound output device when it is determined that at least one of the incoming
- 25 Caller ID data and other caller identifying data received matches stored caller identifying data of a potential communicant.

5 369. A method as in Claim 368 where the memory is Random Access Memory.

370. A method as in Claim 368 where the CPU is a microprocessor.

10 371. A method as in Claim 368 where the sound data is at least one of the following:

- a) .WAV file;
- b) personal computer file;
- 15 c) recorded sound;
- d) uploaded sound; and
- e) pre-stored voice signal.

5 372. A method for displaying an image in a wireless personal communicator, comprising the steps of:

(a) pre-storing an image representative of at least one potential
communicant in a memory contained in the wireless personal
10 communicator;

(b) pre-storing numeric caller identifying data associated with
an image representative of at least one potential communicant in a
memory contained in the wireless personal communicator;

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(c) receiving a wireless signal at the wireless personal
communicator containing at least one of Caller ID data originating from
the public switched telephone network and other caller identifying data
related to a calling party;

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(d) comparing at least one of the received Caller ID data and
other caller identifying data related to a calling party with the pre-
stored numeric caller identifying data to determine if there is a match
between at least one of the received Caller ID data and other caller
25 identifying data and the pre-stored caller identifying data; and

(e) displaying a pre-stored image representative of a calling
party on a display in the wireless personal communicator when it is
determined that at least one of the received Caller ID data and other
30 caller identifying data received matches the pre-stored numeric caller
identifying data.

5 373. A method as in Claim 372 where the wireless personal communicator
may display or annunciate information to the owner of the wireless personal
communicator indicating that the calling party is not listed within the database
when at least one of the Caller ID data and other caller identifying data
10 received fails to produce a match with the pre-stored numeric caller identifying
data.

374. A method as in Claim 373 further comprising a prompt to the owner of
the wireless personal communication device to utilize a keypad or alternative
input interface to enter data into memory that corresponds to the calling party.

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375. A method as in Claim 372 where at least one of the Caller ID data and
other caller identifying data received is displayed along with the pre-stored
image representative of a calling party.

20 376. A method as in Claim 372 where at least one of (a) received Caller ID
data, (b) other received caller identifying data, (c) a flashing iconographic
indicator, (d) the duration of a message received, (e) time information, and (f)
pre-stored numeric caller identifying data is displayed along with the pre-stored
image representative of a calling party.

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377. A method as in Claim 372 where the display is a touch screen adapted
to accept at least one of (a) programming of soft-keys for various functions, (b)
scrolling, (c) data entry, (d) message selection, (e) selection of icons, (f)
selection of menu buttons, and (g) other items by the owner of the wireless
30 personal communicator.

378. A method as in Claim 372 where the display includes a graphical user
interface.

5 379. A method for displaying an image in a wireless personal communicator, comprising the steps of:

(g) pre-storing an image representative of at least one potential
communicant in a memory contained in the wireless personal
10 communicator;

(h) pre-storing alpha-numeric caller identifying data associated with
an image of at least one potential communicant in a memory contained
in the wireless personal communicator;

15 (i) receiving a wireless signal at the wireless personal communicator
containing at least one of Caller ID data originating from the public
switched telephone network and other caller identifying data related to
a calling party;

20 (j) comparing the at least one of Caller ID data and other caller
identifying data related to a calling party received with the pre-stored
alpha-numeric caller identifying data to determine if there is a match
between at least one of the Caller ID data and caller identifying data
25 received and the pre-stored alpha-numeric caller identifying data;

(k) displaying a pre-stored image representative of a calling party on
a display in the wireless personal communicator when it is determined
that at least one of the Caller ID data and other caller identifying data
30 received in a wireless signal matches the pre-stored alpha-numeric
caller identifying data.

5 380. A method as in Claim 379 where the wireless personal communicator
may display or annunciate information to the owner of the wireless personal
communicator indicating that the calling party is not listed within the database
when at least one of the Caller ID data and other caller identifying data
received fails to produce a match with the pre-stored alpha-numeric caller
10 identifying data.

381. A method as in Claim 380 further comprising a prompt to the owner of
the wireless personal communication device to utilize a keypad or alternative
input interface to enter data into memory that corresponds to the calling party.
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382. A method as in Claim 379 where at least one of the Caller ID data and
other caller identifying data received is displayed along with the pre-stored
image representative of a calling party.

20 383. A method as in Claim 379 where at least one of (a) received Caller ID
data, (b) other received caller identifying data, (c) a flashing iconographic
indicator, (d) the duration of a message received, (e) time information, and (f)
pre-stored alpha-numeric caller identifying data is displayed along with the pre-
stored image representative of a calling party.

25 384. A method as in Claim 379 where the display is a touch screen adapted
to accept at least one of (a) programming of soft-keys for various functions, (b)
scrolling, (c) data entry, (d) message selection, (e) selection of icons, (f)
selection of menu buttons, and (g) other items by the owner of the wireless
30 personal communicator.

385. A method as in Claim 379 where the display includes a graphical user
interface.

5 386. A method as in Claim 372 where the pre-stored image is at least one of the following:

- (a) iconographic data;
- (b) logo data;
- (c) data representative of the calling party;
- 10 (d) photo image;
- (e) video image data; and
- (f) other graphic image data.

15 387. A method as in Claim 379 where the pre-stored image is at least one of the following:

- (a) iconographic data;
- (b) logo data;
- (c) data representative of the calling party;
- (d) photo image;
- 20 (e) video image data; and
- (f) other graphic image data.

5 388. For use in a wireless communication system and personal communication device including a wireless receiver unit, a display member, a CPU, a memory, and an input accessory, a method for displaying a photo image comprising the steps of:

10 (a) storing photo image data and caller identifying data of a potential communicant in a database record in memory using an input accessory;

(b) using the wireless receiver unit to receive a wireless signal
15 containing at least one of Caller ID data originating from the public switched telephone network and other caller identifying data related to an actual communicant;

(c) using the CPU to determine whether at least one of the
20 Caller ID data and other caller identifying data received in the wireless signal matches caller identifying data of a potential communicant stored in at least one database record recorded in memory; and

(d) using the CPU to display the photo image data on the
25 display member when it is determined that at least one of the incoming Caller ID data and other caller identifying data received in a wireless signal matches stored caller identifying data of a potential communicant.

5 389. For use in a wireless communication system and personal communication device including a wireless paging receiver unit, a display member, a CPU, a memory, and an input accessory, a method for displaying a logo comprising the steps of:

10 (a) storing logo image data and caller identifying data of a potential communicant in a database record in memory using an input accessory;

 (b) using the wireless receiver unit to receive a wireless signal
15 containing at least one of Caller ID data originating from the public switched telephone network and other caller identifying data related to an actual communicant;

 (c) using the CPU to determine whether at least one of the
20 Caller ID data and other caller identifying data received in the wireless signal matches caller identifying data of a potential communicant stored in at least one database record recorded in memory; and

 (d) using the CPU to display the logo image data on the display
25 member when it is determined that at least one of the received Caller ID data and other caller identifying data received in the wireless signal matches stored caller identifying data of a potential communicant.

5 390. For use in a wireless communication system and personal communication device including a wireless receiver unit, a display member, a CPU, a memory, and an input accessory, a method for displaying a video image comprising the steps of:

10 (a) storing video image data and caller identifying data of a potential communicant in a database record in memory using an input accessory;

(b) using the wireless receiver unit to receive a wireless paging
15 signal containing at least one of Caller ID data originating from the public switched telephone network and other caller identifying data related to an actual communicant;

(c) using the CPU to determine whether at least one of the
20 Caller ID data and other caller identifying data received in a wireless signal matches caller identifying data of a potential communicant stored in at least one database record recorded in memory; and

(d) using the CPU to display the video image data on the display
25 member when it is determined that at least one of the Caller ID data and other caller identifying data received in a wireless signal matches stored caller identifying data of a potential communicant.

5 391. For use in a wireless communication system and personal communication device including a wireless paging receiver unit, a display member, a CPU, a memory, and an input accessory, a method for displaying an image comprising the steps of:

10 (a) storing image data and caller identifying data of a potential communicant in a database record in memory using an input accessory;

(b) using the wireless paging receiver unit to receive a wireless paging signal containing at least one of Caller ID data originating from
15 the public switched telephone network and other caller identifying data that is related to a calling party;

(c) using the CPU to determine whether at least one of Caller ID data and other caller identifying data received in the wireless paging
20 signal matches caller identifying data of a potential communicant stored in at least one database record recorded in memory; and

(d) using the CPU to display the image data on the display member when it is determined that at least one of the Caller ID data and
25 other caller identifying data that is related to a calling party matches stored caller identifying data of a potential communicant.

5 392. A method as in Claim 391 where the memory is Random Access Memory.

393. A method as in Claim 391 where the CPU is a microprocessor.

10 394. A method as in Claim 391 where the image is at least one of the following:

- (a) iconographic data;
- (b) logo data;
- (c) data representative of the calling party;
- 15 (d) photo image;
- (e) video image data; and
- (f) other graphic image data.

5 395. For use in a wireless communication system and personal communication device including a wireless paging receiver unit, a sound output device, a CPU, a memory, and a sound input accessory, a method for generating a sound comprising the steps of:

10 (a) storing sound data and caller identifying data of a potential communicant in a database record in memory using an input accessory;

(b) using the wireless paging receiver unit to receive a wireless paging signal containing at least one caller identifying data that is related
15 to a calling party;

(c) using the CPU to determine whether caller identifying data received in the wireless paging signal matches caller identifying data stored in at least one database record recorded in memory; and

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(d) using the sound output device to generate a sound using a sound output device when it is determined that caller identifying data that is related to a calling party matches stored caller identifying data of a potential communicant.

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5 396. A method as in Claim 395 where the memory is Random Access Memory.

397. A method as in Claim 395 where the CPU is a microprocessor.

10 398. A method as in Claim 395 where the sound data is at least one of the following:

- 15 a) .WAV file;
- b) personal computer file;
- c) recorded sound;
- d) uploaded sound; and
- e) pre-stored voice signal.
- o

5 399. A method for displaying an image in a wireless personal communicator, comprising the steps of:

(a) pre-storing an image representative of at least one potential
communicant in a memory contained in the wireless personal
10 communicator;

(b) pre-storing caller identifying data associated with an image
representative of at least one potential communicant in a memory
contained in the wireless personal communicator;

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(c) receiving a wireless signal at the wireless personal
communicator containing caller identifying data related to a calling
party;

20 (d) comparing the received caller identifying data related to a
calling party with the pre-stored caller identifying data to determine if
there is a match between the received caller identifying data and the
pre-stored caller identifying data; and

25 (e) displaying a pre-stored image representative of a calling
party on a display in the wireless personal communicator when it is
determined that the received caller identifying data related to a calling
party matches the pre-stored caller identifying data.

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5 400. A method as in Claim 399 where the wireless personal communicator may display or annunciate information to the owner of the wireless personal communicator indicating that the calling party is not listed within the database when the received caller identifying data fails to produce a match with the pre-stored caller identifying data.

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401. A method as in Claim 400 further comprising a prompt to the owner of the wireless personal communication device to utilize a keypad or alternative input interface to enter data into memory that corresponds to the calling party.

15 402. A method as in Claim 399 where the caller identifying data of a calling party is displayed along with the pre-stored image representative of a calling party.

20 403. A method as in Claim 399 where at least one of (a) received caller identifying data of a caller, (b) a flashing iconographic indicator, (c) the duration of a message received, (d) time information, and (e) pre-stored caller identifying data is displayed along with the pre-stored image representative of a calling party.

25 404. A method as in Claim 399 where the display is a touch screen adapted to accept at least one of (a) programming of soft-keys for various functions, (b) scrolling, (c) data entry, (d) message selection, (e) selection of icons, (f) selection of menu buttons, and (g) other items by the owner of the wireless personal communicator.

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405. A method as in Claim 399 where the display includes a graphical user interface.

5 406. A method for displaying an image in a wireless personal communicator, comprising the steps of:

(a) pre-storing an image representative of at least one potential
communicant in a memory contained in the wireless personal
10 communicator;

(b) pre-storing alpha-numeric data associated with an image of
at least one potential communicant in a memory contained in the
wireless personal communicator;

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(c) receiving a wireless signal at the wireless personal
communicator containing caller identifying data related to a calling
party;

20 (d) comparing the received caller identifying data related to a
calling party with the pre-stored alpha-numeric data to determine if
there is a match between the received caller identifying data and the
pre-stored alpha-numeric data; and

25 (e) displaying a pre-stored image representative of a calling
party on a display in the wireless personal communicator when it is
determined that the received caller identifying data matches the pre-
stored alpha-numeric data.

5 407. A method as in Claim 406 where the wireless personal communicator may display or annunciate information to the owner of the wireless personal communicator indicating that the calling party is not listed within the database when the received caller identifying data fails to produce a match with the pre-stored alpha-numeric data.

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408. A method as in Claim 407 further comprising a prompt to the owner of the wireless personal communication device to utilize a keypad or alternative input interface to enter data into memory that corresponds to the calling party.

15 409. A method as in Claim 406 where received caller identifying data is displayed along with the pre-stored image representative of a calling party.

410. A method as in Claim 406 where at least one of (a) received Caller ID data, (b) a flashing iconographic indicator, (c) the duration of a message
20 received, (d) time information, and (e) pre-stored alpha-numeric data is displayed along with the pre-stored image representative of a calling party.

411. A method as in Claim 406 where the display is a touch screen adapted to accept at least one of (a) programming of soft-keys for various functions, (b)
25 scrolling, (c) data entry, (d) message selection, (e) selection of icons, (f) selection of menu buttons, and (g) other items by the owner of the wireless personal communicator.

412. A method as in Claim 406 where the display includes a graphical user
30 interface.

5 413. A method as in Claim 406 where the pre-stored image is at least one of the following:

- (a) iconographic data;
- (b) logo data;
- 10 (c) data representative of the calling party;
- (d) photo image;
- (e) video image data; and
- (f) other graphic image data.

15 414. A method as in Claim 399 where the pre-stored image is at least one of the following:

- (a) iconographic data;
- (b) logo data;
- (c) data representative of the calling party;
- 20 (d) photo image;
- (e) video image data; and
- (f) other graphic image data.

5 415. For use in a wireless communication system and personal communication device including a wireless receiver unit, a display member, a CPU, a memory, and an input accessory, a method for displaying a photo image comprising the steps of:

10 (a) storing photo image data and caller identifying data of a potential communicant in a database record in memory using an input accessory;

 (b) using the wireless receiver unit to receive a wireless signal
15 containing caller identifying data;

 (c) using the CPU to determine whether the caller identifying data received in the wireless signal matches caller identifying data of a potential communicant stored in at least one database record recorded in
20 memory; and

 (d) using the CPU to display the photo image data on the display member when it is determined that the incoming caller identifying data matches stored caller identifying data of a potential communicant.

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5 416. For use in a wireless communication system and personal communication device including a wireless receiver unit, a display member, a CPU, a memory, and an input accessory, a method for displaying a logo comprising the steps of:

10 (a) storing logo image data and related data associated with a potential communicant in a database record in memory using an input accessory;

(b) using the wireless receiver unit to receive a wireless signal
15 containing data related to an actual communicant;

(c) using the CPU to determine whether the data received in the wireless signal matches related data of a potential communicant stored in at least one database record recorded in memory; and

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(d) using the CPU to display the logo image data on the display member when it is determined that the data related to an actual communicant received in a wireless signal matches stored data related to a potential communicant.

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5 417. For use in a wireless communication system and personal communication device including a wireless paging receiver unit, a display member, a CPU, a memory, and an input accessory, a method for displaying a video image comprising the steps of:

10 (a) storing video image data and caller identifying data of a potential communicant in a database record in memory using an input accessory;

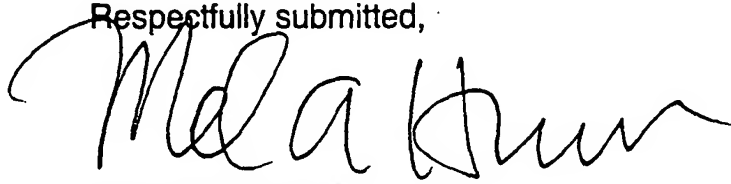
(b) using the wireless paging receiver unit to receive a wireless
15 paging signal containing caller identifying data;

(c) using the CPU to determine whether the caller identifying data received in the wireless signal matches caller identifying data of a potential communicant stored in at least one database record recorded in
20 memory;

(d) using the CPU to display the video image data on the display member when it is determined that the incoming caller identifying data matches stored caller identifying data of a potential communicant.

Enclosed is a check in the amount of \$1348.00 (\$375.00 filing fee; 11 additional claims \$462.00; 34 claims in excess of twenty \$306.00; and \$205.00 for the petition fee). If any additional fees are required, please charge to Deposit Account No. 50-1060.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Melvin A. Hunn", written over a horizontal line.

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